



BRUHAT BANGALORE MAHANAGARA PALIKE

PROJECT DIVISION, YELAHANKA ZONE

Name of Work:- Improvements to widen portion of roads, construction of new drains, UG cable duct and footpath at Doddabommasandra main road surrounding road in ward No.10

Name of Agency :- Sri. Gopikrishna Apsani (Nidhi Constructions)

Job Code :- 010-16-000032

Bill No :- Ist & Part Bill

BOQ Item No	Description	Side	Nos	Length	Width			Depth	Quantity	Unit/Remarks	Rate	Amount
	Chainage				B1	B2	Avg B					
1	KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301(pg no-143,S.Lno-19.14)KPWD S.R 2018-19											
Measurements recorded on :												
	Qty vide Pre measurement sheet page no. 1 to 2											
								Total Quantity	1293.62	Cum	120.81	1,56,281.63
2	Construction of granular sub-base Grading-V as sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98% proctor density, complete as per specifications. Clause 401 of MORTH V Revision.GSB Page No. 153/ Item No. 20.5/ PWD SR 2018-19											
Measurements recorded on :												
	Qty vide Pre measurement sheet page no. 3 to 4											
								Total Quantity	862.41			
								BOQ Qty	740.62			
								Qty to be Reserved in 1st RA	121.79			
								Qty to be Paid in this Bill	740.62	Cum	1919.11	14,21,331.25
3	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 Page No. 155/ Item No. 20.18/ PWD SR 2018-19											
Measurements recorded on :												
	Qty vide Pre measurement sheet page no. 5 to 6											
								Total Quantity	991.77	Cum	1925.23	19,09,388.24
4	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM, including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 Complete with all lead and lift and as per the direction of the Engineer-in-Charge. Page No. 158/ Item No. 21.6/ PWD SR 2018-19 Issue Rates											
Measurements recorded on :												
	Qty vide Pre measurement sheet page no. 7 to 8											
								Total Quantity	4312.05	Sqm	28.55	1,23,109.03
6	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 Page No. 158/ Item No. 21.2/ PWD SR 2018-19											



[Signature]
Assistant Engineer

Asst. Executive Engineer
Project Division
Yelahanka
EDMP, Bangalore -92

Detailed-Measurements

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Measurements recorded on :									
Qty vide Pre measurement sheet page no. 9 to 11					Total Quantity	9603.07	Sqm	5.10	48,975.66
7	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 Page No. 158/ Item No. 21.7/ PWD SR 2018-19 Issue Rates								

Measurements recorded on :									
Qty vide Pre measurement sheet page no. 12 to 17					Total Quantity	19043.42	Sqm	12.24	2,33,091.46
5	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. Clause 505 of morth V revision using 40/60 TPH capacity H.M.P. with mechanical paver Gr-II (50mm to 75mm) with 4.5% VG-30 Bitumen. Page No. 160/ Item No. 21.17.6/ PWD SR 2018-19 Issue Rates								

Measurements recorded on :									
Qty vide Pre measurement sheet page no. 18 to 20					Total Quantity	256.42	Cum	6643.88	17,03,590.49
8	KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision. -using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen (Pg:162, It.No-21.22.6 PWD SR:2018-19) Issue Rates								

Measurements recorded on : 11-04-22, 20-04-22									
Virupakshanagar 5th cross road.									
0.00	15.00	1	15.00	6.80	5.90	6.35	0.04	3.81	
15.00	30.00	1	15.00	5.90	5.90	5.90	0.04	3.54	
30.00	45.00	1	15.00	5.90	5.80	6.00	0.04	3.60	
45.00	60.00	1	15.00	6.30	5.80	6.05	0.04	3.63	
60.00	75.00	1	15.00	5.80	5.40	5.60	0.04	3.36	
75.00	90.00	1	15.00	5.40	5.40	6.00	0.04	3.60	
90.00	105.00	1	15.00	5.40	5.70	5.55	0.04	3.33	
105.00	120.00	1	15.00	5.70	5.70	5.70	0.04	3.42	
120.00	135.00	1	5.00	5.70	5.60	5.65	0.04	3.39	
135.00	150.00	1	5.00	5.60	5.60	5.60	0.04	3.36	
150.00	165.00	1	15.00	5.60	4.90	5.25	0.04	3.15	
165.00	180.00	1	15.00	4.90	4.90	4.90	0.04	2.94	
180.00	195.00	1	15.00	4.90	5.20	5.05	0.04	3.03	
195.00	210.00	1	15.00	5.20	5.20	5.20	0.04	3.12	
210.00	214.00	1	4.00	5.20	5.30	5.25	0.04	0.84	
Virupakshanagar 4th cross road									
0.00	15.00	1	15.00	6.10	6.30	6.20	0.04	3.72	
15.00	30.00	1	15.00	6.30	6.30	6.30	0.04	3.78	
30.00	45.00	1	15.00	6.30	5.90	6.00	0.04	3.60	
45.00	60.00	1	15.00	5.90	5.90	6.10	0.04	3.66	
60.00	75.00	1	15.00	5.90	5.30	5.60	0.04	3.36	
75.00	90.00	1	15.00	5.30	5.30	6.00	0.04	3.60	
90.00	105.00	1	15.00	5.30	4.60	4.95	0.04	2.97	
105.00	120.00	1	15.00	4.60	4.60	4.60	0.04	2.76	
120.00	135.00	1	15.00	4.60	4.30	4.45	0.04	2.67	
135.00	150.00	1	15.00	4.30	4.30	4.30	0.04	2.58	
150.00	165.00	1	15.00	4.30	4.40	4.35	0.04	2.61	



Assistant Engineer

Asst. Executive Engineer
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165.00	180.00	1	15.00	4.40	4.40	4.40	0.04	2.64
180.00	195.00	1	15.00	4.40	4.60	4.50	0.04	2.70
195.00	208.00	1	13.00	4.60	4.60	4.60	0.04	2.39
Virupakshnagar 3rd cross road.								
0.00	15.00	1	15.00	8.10	6.40	7.25	0.04	4.35
15.00	30.00	1	15.00	6.40	6.40	6.40	0.04	3.84
30.00	45.00	1	15.00	6.40	5.60	6.00	0.04	3.60
45.00	60.00	1	15.00	6.30	5.60	5.95	0.04	3.57
60.00	75.00	1	15.00	5.60	5.20	5.40	0.04	3.24
75.00	90.00	1	15.00	5.20	5.20	6.00	0.04	3.60
90.00	105.00	1	15.00	5.20	5.90	5.55	0.04	3.33
105.00	120.00	1	15.00	5.90	5.90	5.90	0.04	3.54
120.00	135.00	1	15.00	5.90	5.50	5.70	0.04	3.42
135.00	150.00	1	15.00	5.50	5.50	5.50	0.04	3.30
150.00	165.00	1	15.00	5.50	5.20	5.35	0.04	3.21
165.00	180.00	1	15.00	5.20	5.20	5.20	0.04	3.12
180.00	195.00	1	15.00	5.20	8.20	6.70	0.04	4.02
195.00	210.00	1	15.00	8.20	8.20	8.20	0.04	4.92
210.00	225.00	1	15.00	8.20	6.20	7.20	0.04	4.32
225.00	240.00	1	15.00	6.20	6.20	6.20	0.04	3.72
240.00	255.00	1	15.00	6.20	6.30	6.25	0.04	3.75
255.00	270.00	1	15.00	6.30	6.30	6.30	0.04	3.78
270.00	285.00	1	15.00	6.30	7.50	6.90	0.04	4.14
285.00	300.00	1	15.00	7.50	7.50	7.50	0.04	4.50
300.00	308.00	1	8.00	7.50	7.50	7.50	0.04	2.40
308.00	310.00	0	0.00	0.00	0.00	0.00	0.04	0.00
310.00	325.00	1	15.00	0.00	7.30	3.65	0.04	2.19
325.00	330.00	1	5.00	7.30	7.30	7.30	0.04	1.46
8th Main Deshabandu nagar								
0.00	30.00	1	30.00	6.00	3.70	4.85	0.04	5.82
30.00	60.00	1	30.00	3.70	4.00	3.85	0.04	4.62
60.00	90.00	1	30.00	4.00	4.00	4.00	0.04	4.80
90.00	116.00	1	30.00	4.00	3.50	3.75	0.04	3.90
7th Main Deshabandu nagar								
0.00	30.00	1	30.00	6.00	3.60	4.80	0.04	5.76
30.00	60.00	1	30.00	3.60	3.50	3.55	0.04	4.26
60.00	90.00	1	30.00	3.50	4.30	3.90	0.04	4.68
90.00	120.00	1	30.00	4.30	4.10	4.20	0.04	5.04
120.00	150.00	1	30.00	4.10	3.40	3.75	0.04	4.50
150.00	180.00	1	30.00	3.40	3.80	3.60	0.04	4.32
180.00	189.00	1	9.00	2.20	2.20	2.20	0.04	0.79
189.00	198.00	1	9.00	2.40	2.40	2.40	0.04	0.86
4th main Deshabandu nagar								
0.00	30.00	1	30.00	4.50	4.00	4.25	0.04	5.10
30.00	60.00	1	30.00	4.00	3.50	3.75	0.04	4.50
60.00	90.00	1	30.00	3.50	4.00	3.75	0.04	4.50
90.00	120.00	1	30.00	4.00	4.20	4.10	0.04	4.92
120.00	150.00	1	30.00	4.20	4.30	4.25	0.04	5.10
150.00	157.00	1	7.00	4.30	4.20	4.25	0.04	1.19
3rd main Deshabandu nagar								
0.00	30.00	1	30.00	6.00	3.90	4.95	0.04	5.94
30.00	60.00	1	30.00	3.90	3.90	3.90	0.04	4.68
60.00	87.00	1	27.00	3.90	4.50	4.20	0.04	4.54
87.00	90.00	1	3.00	4.40	4.40	4.40	0.04	0.53
90.00	110.00	1	20.00	4.40	3.50	3.95	0.04	3.16
2nd Main Road Deshabandu nagar								
0.00	26.00	1	26.00	4.40	5.50	4.95	0.04	5.15
26.00	50.00	1	24.00	5.00	5.60	5.30	0.04	5.09
50.00	60.00	1	10.00	5.30	5.30	5.45	0.04	2.18
60.00	90.00	1	30.00	5.30	5.80	5.55	0.04	6.66



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101.00	118.00	1	17.00	5.40	4.80	5.10	0.04	3.47
Renukamba Temple Road								
0.00	30.00	1	30.00	5.50	5.60	5.55	0.04	6.66
30.00	60.00	1	30.00	5.60	4.40	5.00	0.04	6.00
60.00	90.00	1	30.00	4.40	4.00	4.20	0.04	5.04
90.00	93.00	1	3.00	4.00	3.80	3.90	0.04	0.47
93.00	120.00	1	27.00	6.40	6.40	6.40	0.04	6.91
120.00	136.00	1	16.00	6.40	4.70	5.55	0.04	3.55
136.00	150.00	1	14.00	4.70	3.80	4.25	0.04	2.38
150.00	180.00	1	30.00	3.80	4.50	4.15	0.04	4.98
180.00	210.00	1	30.00	4.50	4.60	4.55	0.04	5.46
210.00	228.00	1	18.00	4.60	4.00	4.30	0.04	3.10
3rd Cross Road G Byrappa Garden								
0.00	30.00	1	30.00	4.20	3.70	3.95	0.04	4.74
30.00	60.00	1	30.00	3.70	3.60	3.65	0.04	4.38
60.00	90.00	1	30.00	3.60	5.20	4.40	0.04	5.28
90.00	94.00	1	4.00	5.20	5.20	5.20	0.04	0.83
2nd A cross G Byrappa Garden								
0.00	11.00	1	11.00	5.90	5.30	5.60	0.04	2.46
11.00	14.00	1	3.00	5.30	5.30	5.30	0.04	0.64
14.00	30.00	1	16.00	3.40	4.70	4.05	0.04	2.59
30.00	47.50	1	17.50	4.70	5.10	4.90	0.04	3.43
47.50	52.00	1	4.50	2.80	3.00	2.90	0.04	0.52
2nd Main Road								
0.00	18.00	1	18.00	7.00	4.80	5.90	0.04	4.25
18.00	26.00	1	8.00	4.80	5.00	4.90	0.04	1.57
26.00	40.00	1	14.00	5.00	4.50	4.75	0.04	2.66
40.00	60.00	1	20.00	4.50	4.30	4.40	0.04	3.52
60.00	90.00	1	30.00	4.30	5.20	4.75	0.04	5.70
90.00	120.00	1	30.00	5.20	4.70	4.95	0.04	5.94
120.00	150.00	1	30.00	4.70	4.00	4.35	0.04	5.22
150.00	180.00	1	30.00	4.00	4.70	4.35	0.04	5.22
180.00	190.00	1	10.00	4.70	4.30	4.50	0.04	1.80
2nd B cross Ramiah Garden								
0.00	30.00	1	30.00	7.20	5.60	6.40	0.04	7.68
30.00	60.00	1	30.00	5.60	3.80	4.70	0.04	5.64
60.00	90.00	1	30.00	3.80	4.00	3.90	0.04	4.68
90.00	94.50	1	4.50	4.00	4.00	4.00	0.04	0.72
94.50	98.00	1	3.50	2.50	2.50	2.50	0.04	0.35
98.00	117.50	1	19.50	4.20	4.40	4.30	0.04	3.35
5th cross Ramiah Garden								
0.00	30.00	1	30.00	4.80	4.80	4.80	0.04	5.76
30.00	39.50	1	9.50	4.80	5.20	5.00	0.04	1.90
2nd Cross Ramaiah Garden								
0.00	30.00	1	30.00	4.50	4.20	4.35	0.04	5.22
30.00	37.00	1	7.00	4.20	3.50	3.85	0.04	1.08
5th Main Deshabandu nagar								
0.00	30.00	1	30.00	8.60	5.00	6.80	0.04	8.16
30.00	60.00	1	30.00	5.00	4.80	4.90	0.04	5.88
60.00	90.00	1	30.00	4.80	4.70	4.75	0.04	5.70
90.00	120.00	1	30.00	4.70	4.50	4.60	0.04	5.52
120.00	150.00	1	30.00	4.50	4.30	4.40	0.04	5.28
150.00	166.00	1	16.00	4.30	5.60	4.95	0.04	3.17
4th 1st b Cross Deshabandunagar								
0.00	24.40	1	24.40	4.30	4.30	4.30	0.04	4.20
24.40	47.00	1	22.60	3.60	4.40	4.00	0.04	3.62



Assistant Engineer

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2nd Cross Byrappa Garden

0.00	30.00	1	30.00	3.70	3.90	3.80	0.04	4.56
30.00	60.00	1	30.00	3.90	4.90	4.40	0.04	5.28
60.00	90.00	1	30.00	4.90	5.00	4.95	0.04	5.94
90.00	120.00	1	30.00	5.00	4.50	4.75	0.04	5.70
120.00	150.00	1	30.00	4.50	4.50	4.50	0.04	5.40
150.00	180.00	1	30.00	4.50	4.50	4.50	0.04	5.40
180.00	187.00	1	7.00	4.50	4.50	4.50	0.04	1.26

2nd B Cross Ramiah Layout

0.00	30.00	1	30.00	5.60	4.20	4.90	0.04	5.88
30.00	60.00	1	30.00	4.20	5.00	4.60	0.04	5.52
60.00	63.50	1	3.50	5.00	5.00	5.00	0.04	0.70

Family Enclave Road

0.00	30.00	1	30.00	5.90	6.20	6.05	0.04	7.26
30.00	60.00	1	30.00	6.20	5.60	5.90	0.04	7.08
60.00	90.00	1	30.00	5.60	5.40	5.50	0.04	6.60
90.00	112.00	1	22.00	5.40	5.30	5.35	0.04	4.71

2nd B cross G Byrappa Garden

0.00	30.00	1	30.00	4.50	4.40	4.45	0.04	5.34
30.00	60.00	1	30.00	4.40	4.40	4.40	0.04	5.28
60.00	77.00	1	17.00	4.40	4.30	4.35	0.04	2.96

Total Quantity

556.60

Cum

7569.79

4213381.45

KSRRB M800-13 Road Marking with Hot Applied Thermoplastic Compound with Reflecting Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 Page No. 182/ Item No. 24.15 PWD SR 2018-19

Measurements recorded on :

Edge Line

Virupakshanagar 5th cross	2	214.00	0.10	42.80
Virupakshanagar 4th cross	2	208.00	0.10	41.60
Virupakshanagar 3rd cross	2	328.00	0.10	65.60

Total Quantity

150.00

Sqm

430.00

64500.00

Total Amount

98,73,649.21

Add 12% GST

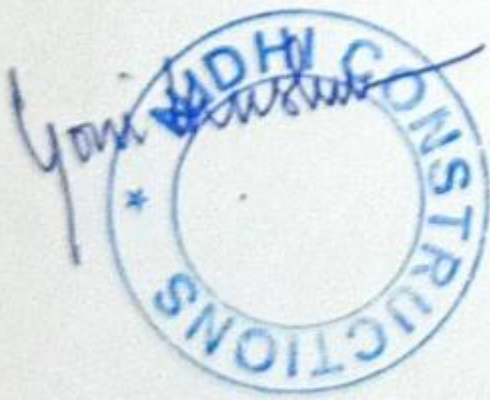
11,84,837.91

Grand Total Amount

1,10,58,487.12

10. KSRRB M800 Road Markers / Road Stud KSRRB M800-35, providing and fixing of Road Stud 100 x 100 mm die cast aluminium, resistant to corrosive effect of salt and grit....

Total Qty = 0.00. Not operated



Assistant Engineer

Asst. Executive Engineer
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Yelahanka Zone